(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 23 June 2005 (23.06.2005)

PCT

(10) International Publication Number WO 2005/055715 A2

(51) International Patent Classification7:

A01N

Steven, W. [US/US]; 400 Wayne Avenue Apt. 6, Oakland, CA 94606 (US).

(21) International Application Number:

PCT/US2004/040284

- (22) International Filing Date: 2 December 2004 (02.12.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/526,760 60/609,590

4 December 2003 (04.12.2003) 14 September 2004 (14.09.2004) US

- (71) Applicant (for all designated States except US): FMC CORPORATION [US/US]; 1735 Market Street, Philadelphia, PA 19103 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROUSH, David, M. [US/US]; 14 Hamilton Avenue, Princeton, NJ 08542 (US). CHIARELLO, John, F. [US/US]; 2020 Farmview Drive, Newtown, PA 18940 (US). YU, Jianming [CN/US]; 65 Penn Lyle Road, West windsor, NJ 08550 (US). DUGAN, Benjamin, J. [US/US]; 437 Concord Road, Glen Mills, PA 19342 (US). THEODORIDIS, George [US/US]; 45 Monroe Lane, Princeton, NJ 08540 (US). PATEL, Manorama, M. [US/US]; 6 Perry Drive, West Windsor, NJ 08550 (US). YEAGER, Walter, H. [US/US]; 274 Hickory Road, Yardley, PA 19067 (US). SZCZEPANSKI,

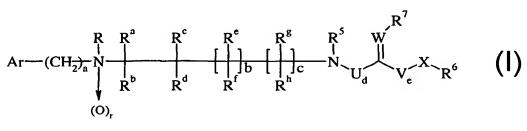
- (74) Agents: SHEEHAN, John, M. et al.; FMC Corporation, 1735 Market Street, Philadelphia, PA 19103 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INSECTICIDAL N-(HETEROARYLALKYL) ALKANEDIAMINE DERIVATIVES



(57) Abstract: Certain noel N-(heteroarylalkyl)alkanediamine derivatives have provided unexpected insecticidal and acaricidal activity. These compounds are represented by formula I: wherein Ar, a, r, R, R^a, R^b, R^c, R^d, b, c, R^c, R^f, R^g, R^h, R⁵, d, e, U, V, X, WR⁶ and R⁷ are fully described herein. In addition, compositions comprising an insecticidally effective amount of at least one compound of formula I, and optionally, an effective amount of at least one of a second compound, with at least one insecticidally compatible carrier are also disclosed; along with methods of controlling insects comprising applying said compositions to a locus where insects are present or are expected to be present.